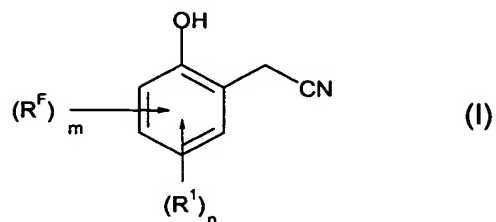


WHAT IS CLAIMED IS:

1. Process for preparing compounds of the formula (I)



where

R^1 is in each case independently C_1 - C_{12} -alkyl, free or protected formyl, chlorine or bromine or a radical of the formulae (IIa) or (IIb)

A-B-D-E (IIa)

A-E (IIb)

where, each independently,

A is absent or is a C_1 - C_8 -alkylene radical and

B is absent or is oxygen, sulphur or NR^2

where R^2 is hydrogen or C_1 - C_8 -alkyl and

D is a carbonyl group and

E is C₁-C₈-alkyl, C₁-C₈-alkoxy, NH(C₁-C₈-alkyl) or N(C₁-C₈-alkyl)₂ or is a cyclic amino radical having 4 to 12 carbon atoms and

5 n is an integer of 0 to 4-m and

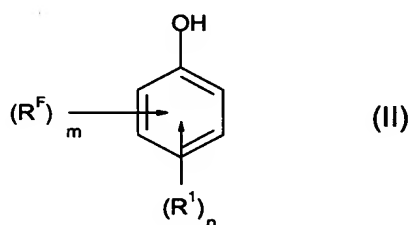
R^F is fluorine, C₁-C₁₂-fluoroalkyl, -O(C₁-C₁₂-fluoroalkyl) or -S(C₁-C₁₂-fluoroalkyl) and

10 m is an integer of 1 to 3,

comprising

a) converting compounds of the formula (II)

15

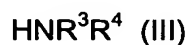


where R¹ and R^F, and also n and m, are as defined

20

in the presence of formaldehyde and

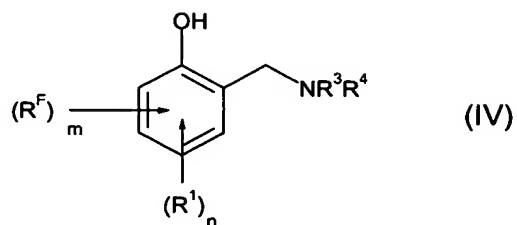
in the presence of secondary amines of the formula (III)



25

where R³ and R⁴ are each independently C₁-C₈-alkyl, or NR³R⁴ as a whole is a cyclic amino radical having a total of 4 to 12 carbon atoms

to compounds of the formula (IV)



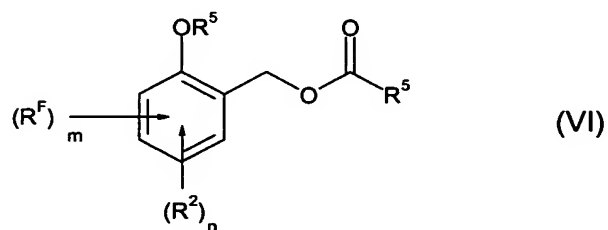
5 where R^1 , R^3 , R^4 and R^F , m and n , are as defined above, and

b) reacting the compounds of the formula (IV) with compounds of the formula (V)



where the R^5 radicals are each independently hydrogen, C_1 - C_{12} -alkyl, C_2 - C_{12} -alkenyl, C_5 - C_{14} -aryl or C_6 - C_{15} -arylalkyl

15 to convert them to compounds of the formula (VI)



20 where R^1 , R^F , m and n are each as defined under formula (I) and

the R^5 radicals are each independently hydrogen, C_1 - C_{12} -alkyl, C_2 - C_{12} -alkenyl, C_5 - C_{14} -aryl or C_6 - C_{15} -arylalkyl, and

- c) reacting the compounds of the formula (VI) with cyanide.
2. Process according to Claim 1, characterized in that R¹ is in each
5 case independently C₁-C₄-alkyl, free or protected formyl, or
chlorine.
 3. Process according to Claim 1, characterized in that n is 0 or 1.
 - 10 4. Process according to Claim 1, characterized in that R^F is fluorine,
C₁-C₄-fluoroalkyl, -O(C₁-C₄-fluoroalkyl) or -S(C₁-C₄-fluoroalkyl).
 5. Process according to Claim 1, characterized in that R³ and R⁴ are
each an identical C₁-C₈-alkyl radical.
15
 6. Process according to Claim 1, characterized in that R⁵ is in each
case identically hydrogen, C₁-C₁₂-alkyl, C₂-C₁₂-alkenyl, C₅-C₁₄-aryl
or C₆-C₁₅-arylalkyl.
 - 20 7. Process according to Claim 1, characterized in that the molar ratio
of formaldehyde to compounds of the formula (II) in step a) is 0.8 to
10.
 8. Process according to Claim 1, characterized in that the molar ratio
25 of secondary amines of the formula (III) to compounds of the
formula (II) in step a) is 0.8 to 10.
 9. Process according to Claim 1, characterized in that the molar ratio
of compounds of the formula (V) to compounds of the formula (IV)
30 in step a) is 1.5 to 10.

10. Process according to Claim 1, characterized in that alkali metal cyanides are used in step c).

5 11. Process according to Claim 1, characterized in that, in a further step d), the compounds of the formula (I) are reacted with compounds of the formulae (VIIa) or (VIIb)



10

where, in formula (VIIa),

15 R^5 is hydrogen, $\text{C}_1\text{-C}_{12}\text{-alkyl}$, $\text{C}_2\text{-C}_{12}\text{-alkenyl}$, $\text{C}_5\text{-C}_{14}\text{-aryl}$, $\text{C}_6\text{-C}_{15}\text{-arylalkyl}$, $\text{O}(\text{C}_1\text{-C}_{12}\text{-alkyl})$, $\text{O}(\text{C}_5\text{-C}_{14}\text{-aryl})$, $\text{O}(\text{C}_6\text{-C}_{15}\text{-arylalkyl})$, $\text{O}(\text{C}_2\text{-C}_{12}\text{-alkenyl})$, $\text{NH}(\text{C}_1\text{-C}_{12}\text{-alkyl})$, $\text{NH}(\text{C}_5\text{-C}_{14}\text{-aryl})$, $\text{NH}(\text{C}_6\text{-C}_{15}\text{-arylalkyl})$, $\text{N}(\text{C}_1\text{-C}_{12}\text{-alkyl})_2$, $\text{N}(\text{C}_5\text{-C}_{14}\text{-aryl})_2$ or $\text{N}(\text{C}_6\text{-C}_{15}\text{-arylalkyl})_2$, , and

20 X is OCOR^5 , fluorine, chlorine, bromine or iodine, and

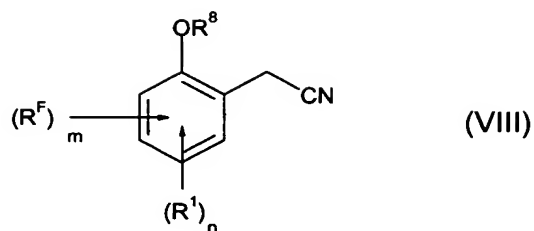
20

where, in formula (VIIb),

R^6 is $\text{C}_1\text{-C}_{12}\text{-alkyl}$, $\text{C}_5\text{-C}_{14}\text{-aryl}$ or $\text{C}_6\text{-C}_{15}\text{-arylalkyl}$ and

25 Y is O_3SR^7 , chlorine, bromine or iodine where R^7 is $\text{C}_1\text{-C}_{12}\text{-alkyl}$, $\text{C}_5\text{-C}_{14}\text{-aryl}$ or $\text{C}_1\text{-C}_{12}\text{-fluoroalkyl}$,

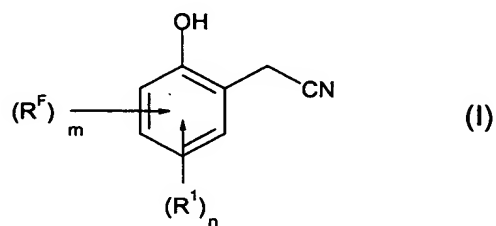
to give compounds of the formula (VIII)



where

5 R^8 is R^5CO or R^6 as defined above, and R^1 , R^F , m and n are each as defined under formula (I).

12. Process of Claim 1 for preparing compounds of the formula (I)



10 where

R^1 is in each case independently C_1 - C_{12} -alkyl, free or protected formyl, chlorine or bromine or a radical of the formulae (IIa) or (IIb)

15

A-B-D-E (IIa)

A-E (IIb)

20

where, each independently,

A is absent or is a C_1 - C_8 -alkylene radical and

B is absent or is oxygen, sulphur or NR^2

where R^2 is hydrogen or $\text{C}_1\text{-C}_8\text{-alkyl}$ and

5 D is a carbonyl group and

E is $\text{C}_1\text{-C}_8\text{-alkyl}$, $\text{C}_1\text{-C}_8\text{-alkoxy}$, $\text{NH}(\text{C}_1\text{-C}_8\text{-alkyl})$ or $\text{N}(\text{C}_1\text{-C}_8\text{-alkyl})_2$ or is a cyclic amino radical having 4 to 12 carbon atoms and

10

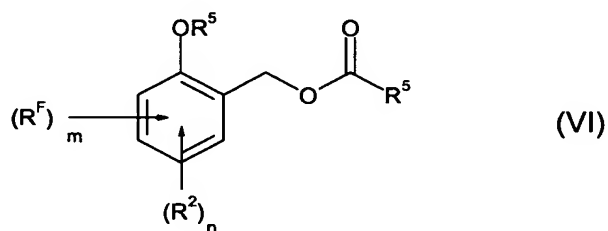
n is an integer of 0 to 4-m and

R^F is fluorine, $\text{C}_1\text{-C}_{12}\text{-fluoroalkyl}$, $-\text{O}(\text{C}_1\text{-C}_{12}\text{-fluoroalkyl})$ or $-\text{S}(\text{C}_1\text{-C}_{12}\text{-fluoroalkyl})$ and

15

m is an integer of 1 to 3,

comprising reacting compounds of the formula (VI)



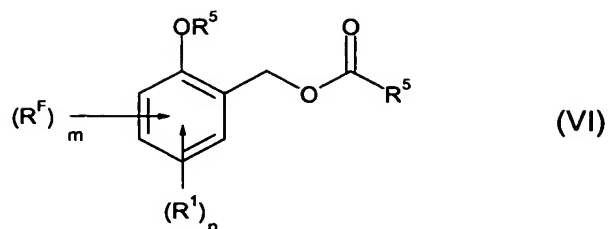
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where R^1 , R^F , m and n are each as defined under formula (I) and

the R^5 radicals are each independently hydrogen, $\text{C}_1\text{-C}_{12}\text{-alkyl}$, $\text{C}_2\text{-C}_{12}\text{-alkenyl}$, $\text{C}_5\text{-C}_{14}\text{-aryl}$ or $\text{C}_6\text{-C}_{15}\text{-arylalkyl}$ with cyanide.

25

13. Process for preparing compounds of the formula (VI)



where

5 R^1 is in each case independently C_1 - C_{12} -alkyl, free or protected formyl, chlorine or bromine or a radical of the formulae (IIa) or (IIb)

A-B-D-E (IIa)

10

A-E (IIb)

where, each independently,

15 A is absent or is a C_1 - C_8 -alkylene radical and

B is absent or is oxygen, sulphur or NR^2

where R^2 is hydrogen or C_1 - C_8 -alkyl and

20

D is a carbonyl group and

E is C_1 - C_8 -alkyl, C_1 - C_8 -alkoxy, $NH(C_1$ - C_8 -alkyl) or $N(C_1$ - C_8 -alkyl) $_2$ or is a cyclic amino radical having 4 to 12 carbon atoms and

25

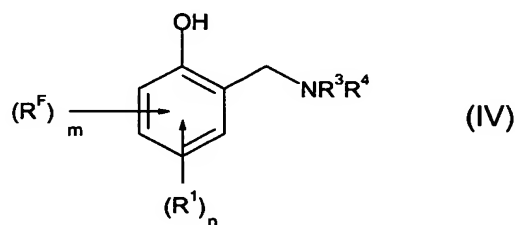
n is an integer of 0 to 4-m and

R^F is fluorine, C_1 - C_{12} -fluoroalkyl, $-O(C_1$ - C_{12} -fluoroalkyl) or $-S(C_1$ - C_{12} -fluoroalkyl) and

m is an integer of 1 to 3 and

R^5 is in each case independently hydrogen, C_1 - C_{12} -alkyl, C_2 - C_{12} -alkenyl, C_5 - C_{14} -aryl or C_6 - C_{15} -arylalkyl,

comprising reacting compounds of the formula (IV)



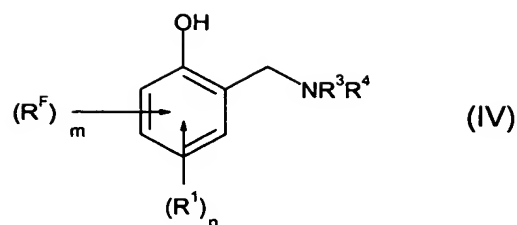
where R^1 and R^F , and also m and n , are as defined above and

R^3 and R^4 are each independently C_1 - C_8 -alkyl, or NR^3R^4 as a whole is a cyclic amino radical having a total of 4 to 12 carbon atoms with compounds of the formula (V)



where the R^5 radicals are as defined above.

14. Process for preparing compounds of the formula (IV)



where

5 R^1 is in each case independently C_1 - C_{12} -alkyl, free or protected formyl, chlorine or bromine or a radical of the formulae (IIa) or (IIb)

A-B-D-E (IIa)

10

A-E (IIb)

where, each independently,

15 A is absent or is a C_1 - C_8 -alkylene radical and

B is absent or is oxygen, sulphur or NR^2

where R^2 is hydrogen or C_1 - C_8 -alkyl and

20

D is a carbonyl group and

E is C_1 - C_8 -alkyl, C_1 - C_8 -alkoxy, $NH(C_1$ - C_8 -alkyl) or $N(C_1$ - C_8 -alkyl) $_2$ or is a cyclic amino radical having 4 to 12 carbon atoms and

25

n is an integer of 0 to 4-m and

R^F is fluorine, C_1 - C_{12} -fluoroalkyl, $-O(C_1$ - C_{12} -fluoroalkyl) or $-S(C_1$ - C_{12} -fluoroalkyl) and

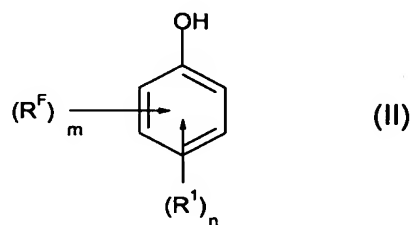
m is an integer of 1 to 3 and

5

R^3 and R^4 are each independently C_1 - C_8 -alkyl, or NR^3R^4 as a whole is a cyclic amino radical having a total of 4 to 12 carbon atoms,

10

comprising converting compounds of the formula (II)



where R^1 and R^F , and also n and m , are as defined above

15

in the presence of formaldehyde and

in the presence of secondary amines of the formula (III)

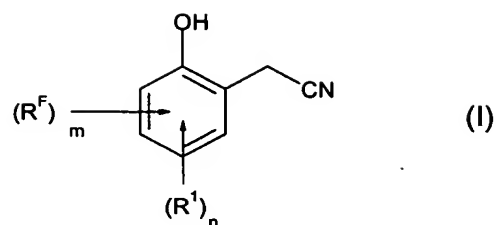
20



where R^3 and R^4 are as defined above.

15. Compounds of the formula (I)

25



where

5 R^1 is in each case independently C_1 - C_{12} -alkyl, free or protected formyl, chlorine or bromine or a radical of the formulae (IIa) or (IIb)

A-B-D-E (IIa)

10

A-E (IIb)

where, each independently,

15 A is absent or is a C_1 - C_8 -alkylene radical and

B is absent or is oxygen, sulphur or NR^2

where R^2 is hydrogen or C_1 - C_8 -alkyl and

20

D is a carbonyl group and

E is C_1 - C_8 -alkyl, C_1 - C_8 -alkoxy, $NH(C_1$ - C_8 -alkyl) or $N(C_1$ - C_8 -alkyl) $_2$ or is a cyclic amino radical having 4 to 12 carbon atoms and

25

n is an integer of 0 to 4-m and

R^F is fluorine, C_1 - C_{12} -fluoroalkyl, $-O(C_1$ - C_{12} -fluoroalkyl) or $-S(C_1$ - C_{12} -fluoroalkyl) and

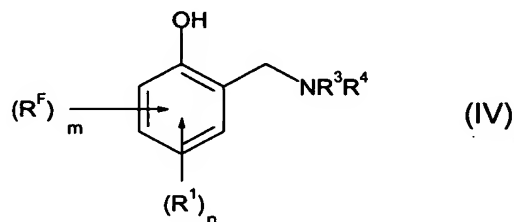
m is an integer of 1 to 3.

5

16. Compounds of formula (I) according to Claim 15 selected from the group consisting of 2-hydroxy-5-fluorophenylacetonitrile, 2-hydroxy-4,5-difluorophenylacetonitrile, 2-hydroxy-5-trifluoromethoxyphenylacetonitrile, 6-hydroxy-2,3,4-trifluorophenylacetonitrile and 2-hydroxy-4-trifluoromethylphenylacetonitrile.

10

17. Compounds of the formula (IV)



15

where

R^1 is in each case independently C_1 - C_{12} -alkyl, free or protected formyl, chlorine or bromine or a radical of the formulae (IIa) or (IIb)

20

A-B-D-E (IIa)

A-E (IIb)

25

where, each independently,

A is absent or is a C_1 - C_8 -alkylene radical and

B is absent or is oxygen, sulphur or NR^2

where R^2 is hydrogen or $\text{C}_1\text{-C}_8\text{-alkyl}$ and

5 D is a carbonyl group and

E is $\text{C}_1\text{-C}_8\text{-alkyl}$, $\text{C}_1\text{-C}_8\text{-alkoxy}$, $\text{NH}(\text{C}_1\text{-C}_8\text{-alkyl})$ or $\text{N}(\text{C}_1\text{-C}_8\text{-alkyl})_2$ or is a cyclic amino radical having 4 to 12 carbon atoms and

10

n is an integer of 0 to 4-m and

R^{F} is fluorine, $\text{C}_1\text{-C}_{12}\text{-fluoroalkyl}$, $-\text{O}(\text{C}_1\text{-C}_{12}\text{-fluoroalkyl})$ or $-\text{S}(\text{C}_1\text{-C}_{12}\text{-fluoroalkyl})$ and

15

m is an integer of 1 to 3 and

R^3 and R^4 are each independently $\text{C}_1\text{-C}_8\text{-alkyl}$, or NR^3R^4 as a whole is a cyclic amino radical having a total of 4 to 12 carbon atoms,

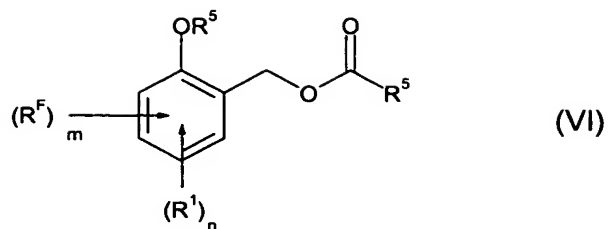
20

with the exception of 2-hydroxy-5-fluoro-N,N-dimethylbenzylamine.

18. Compound of formula (IV) according to Claim 17 selected from the group consisting of 4,5-difluoro-2-hydroxy-N,N-dimethylbenzylamine, 2-hydroxy-5-(trifluoromethoxy)-N,N-dimethylbenzylamine, 6-hydroxy-2,3,4-trifluoro-N,N-dimethylbenzylamine and 2-hydroxy-4-(trifluoromethyl)-N,N-dimethylbenzylamine.

25

30 19. Compounds of the formula (VI)



where

R^1 is in each case independently C_1 - C_{12} -alkyl, free or protected formyl, chlorine or bromine or a radical of the formulae (IIa) or (IIb)

A-B-D-E (IIa)

A-E (IIb)

where, each independently,

A is absent or is a C_1 - C_8 -alkylene radical and

B is absent or is oxygen, sulphur or NR^2

where R^2 is hydrogen or C_1 - C_8 -alkyl and

D is a carbonyl group and

E is C_1 - C_8 -alkyl, C_1 - C_8 -alkoxy, $NH(C_1$ - C_8 -alkyl) or $N(C_1$ - C_8 -alkyl)₂ or is a cyclic amino radical having 4 to 12 carbon atoms and

n is an integer of 0 to 4-m and

R^F is fluorine, C_1 - C_{12} -fluoroalkyl, $-O(C_1$ - C_{12} -fluoroalkyl) or $-S(C_1$ - C_{12} -fluoroalkyl) and

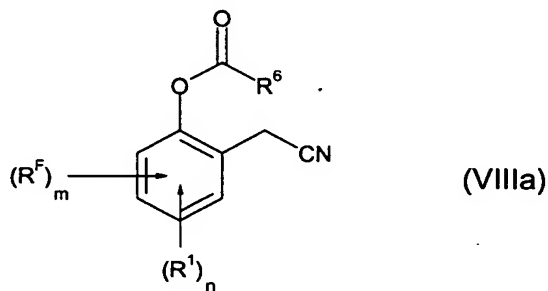
m is an integer of 1 to 3 and

5

R^5 is in each case independently hydrogen, C_1 - C_{12} -alkyl, C_2 - C_{12} -alkenyl, C_5 - C_{14} -aryl or C_6 - C_{15} -arylalkyl, with the exception of 2-acetoxy-5-fluorobenzyl acetate.

10 20. Compounds of formula (VI) according to Claim 17 selected from the group consisting of 2-acetoxy-4,5-difluorobenzyl acetate, 2-acetoxy-5-(trifluoromethoxy)benzyl acetate, 6-acetoxy-2,3,4-trifluorobenzyl acetate and 2-acetoxy-4-trifluoromethylbenzyl acetate.

15 21. Compounds of the formula (VIIIa)



where

20 R^1 is in each case independently C_1 - C_{12} -alkyl, free or protected formyl, chlorine or bromine or a radical of the formulae (IIa) or (IIb)

A-B-D-E (IIa)

25

A-E (IIb)

where, each independently,

A is absent or is a C₁-C₈-alkylene radical and

5 B is absent or is oxygen, sulphur or NR²

where R² is hydrogen or C₁-C₈-alkyl and

10 D is a carbonyl group and

E is C₁-C₈-alkyl, C₁-C₈-alkoxy, NH(C₁-C₈-alkyl) or N(C₁-C₈-alkyl)₂ or is a cyclic amino radical having 4 to 12 carbon atoms and

15 n is an integer of 0 to 4-m and

R^F is fluorine, C₁-C₁₂-fluoroalkyl, -O(C₁-C₁₂-fluoroalkyl) or -S(C₁-C₁₂-fluoroalkyl) and

20 m is an integer of 1 to 3 and

R⁶ is C₁-C₁₂-alkyl, C₅-C₁₄-aryl or C₆-C₁₅-arylalkyl.

22. A process for preparing active ingredients for medicaments
25 comprising providing compounds of Claim 15.

23. A process for treating cardiovascular disorders or diseases
comprising administering medicaments containing active
ingredients based on compounds of Claim 15 to subjects in need
30 thereof.